

Figure 1

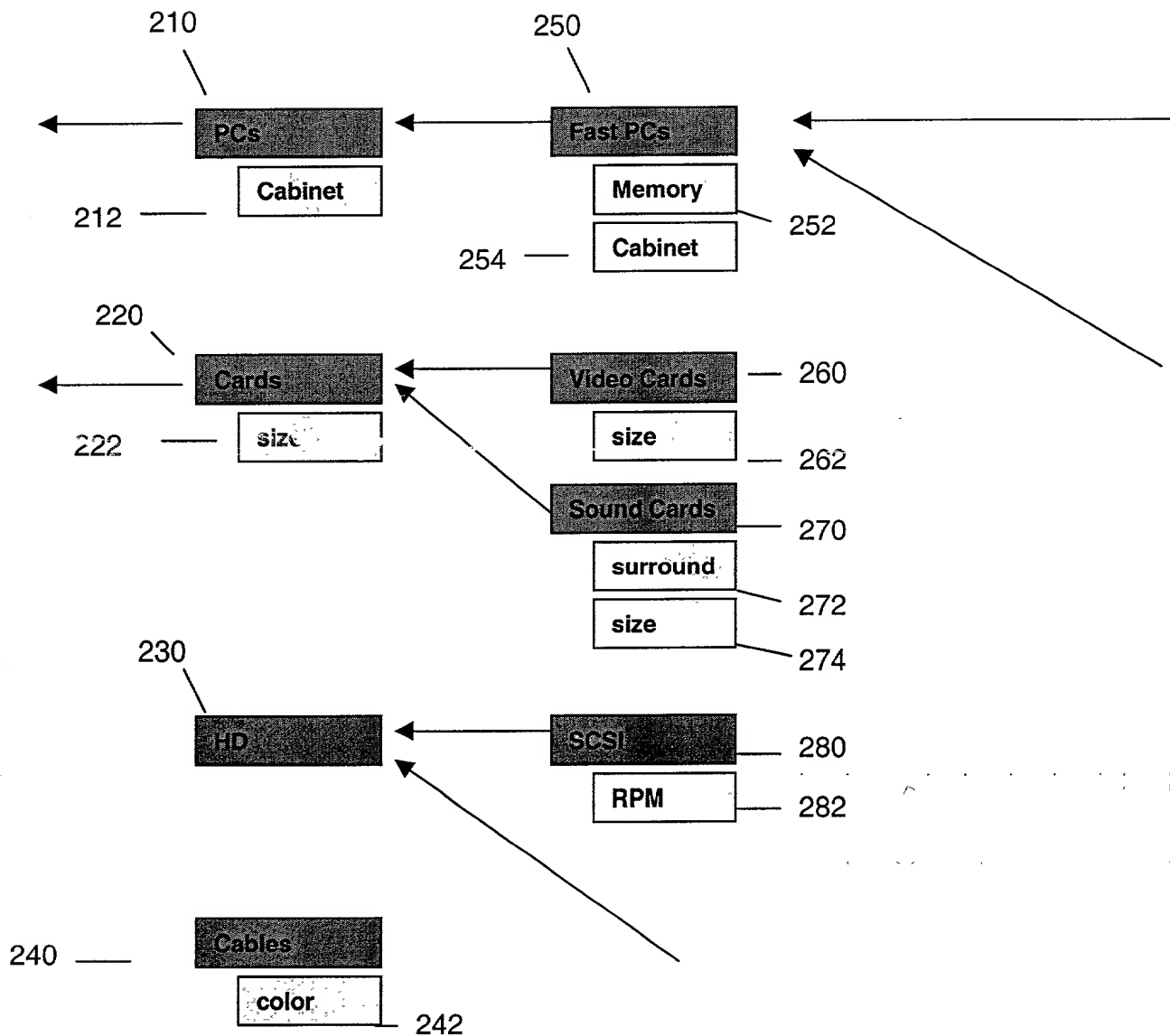


Figure 2

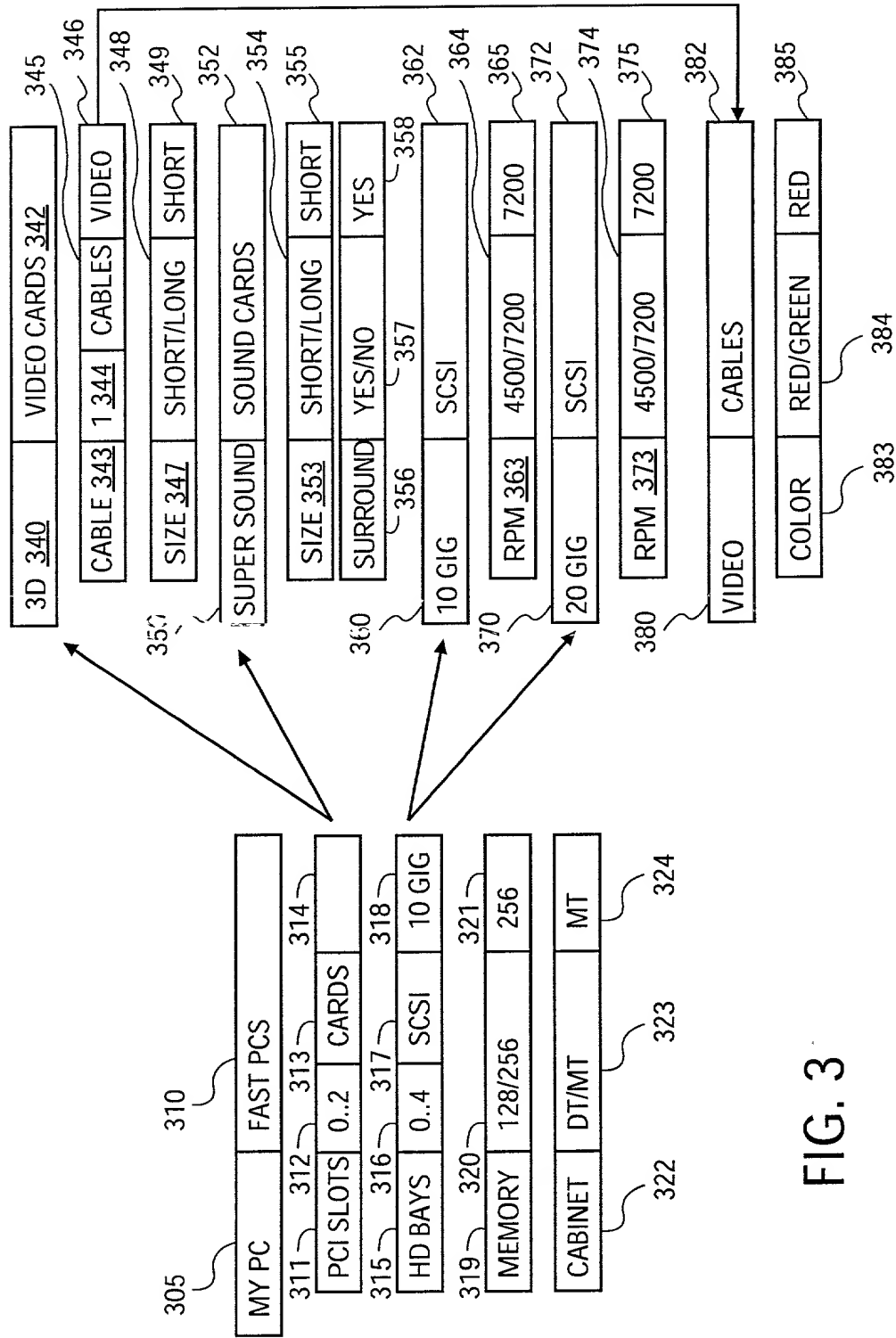


FIG. 3

| Minimum Cardinality | Default Cardinality | Maximum Cardinality | System Adds Default Product? | User Pick Req'd? | Initial Solution | User Actions Allowed |
|---------------------|---------------------|---------------------|------------------------------|------------------|---------------------|--|
| =0 | = Min Card | >Default Card | No | No | No items | Increase item quantities to Max Card |
| =0 | > Min Card | =Default Card | No | No | N=Max Card | Decrease Item quantities to 0 but cannot increase them. |
| =0 | > Min Card | >Default Card | No | No | N=Default Card | Increase item quantities to Max Card or decrease them to 0 |
| >0 | = Min Card | =Default Card | Yes | Yes | N=Min, Default, Max | Cannot increase or decrease item quantities. |
| >0 | = Min Card | > Default Card | Yes | Yes | N=Min | Can increase item quantities to Max Card but cannot decrease them. |
| >0 | > Min Card | = Default Card | Yes | Yes | N=Default | Can decrease item quantities to Min Card but cannot increase them. |
| >0 | > Min Card | >Default Card | Yes | Yes | N=Default | Can decrease item quantities to Min Card or increase them to Max Card. |

Figure 4

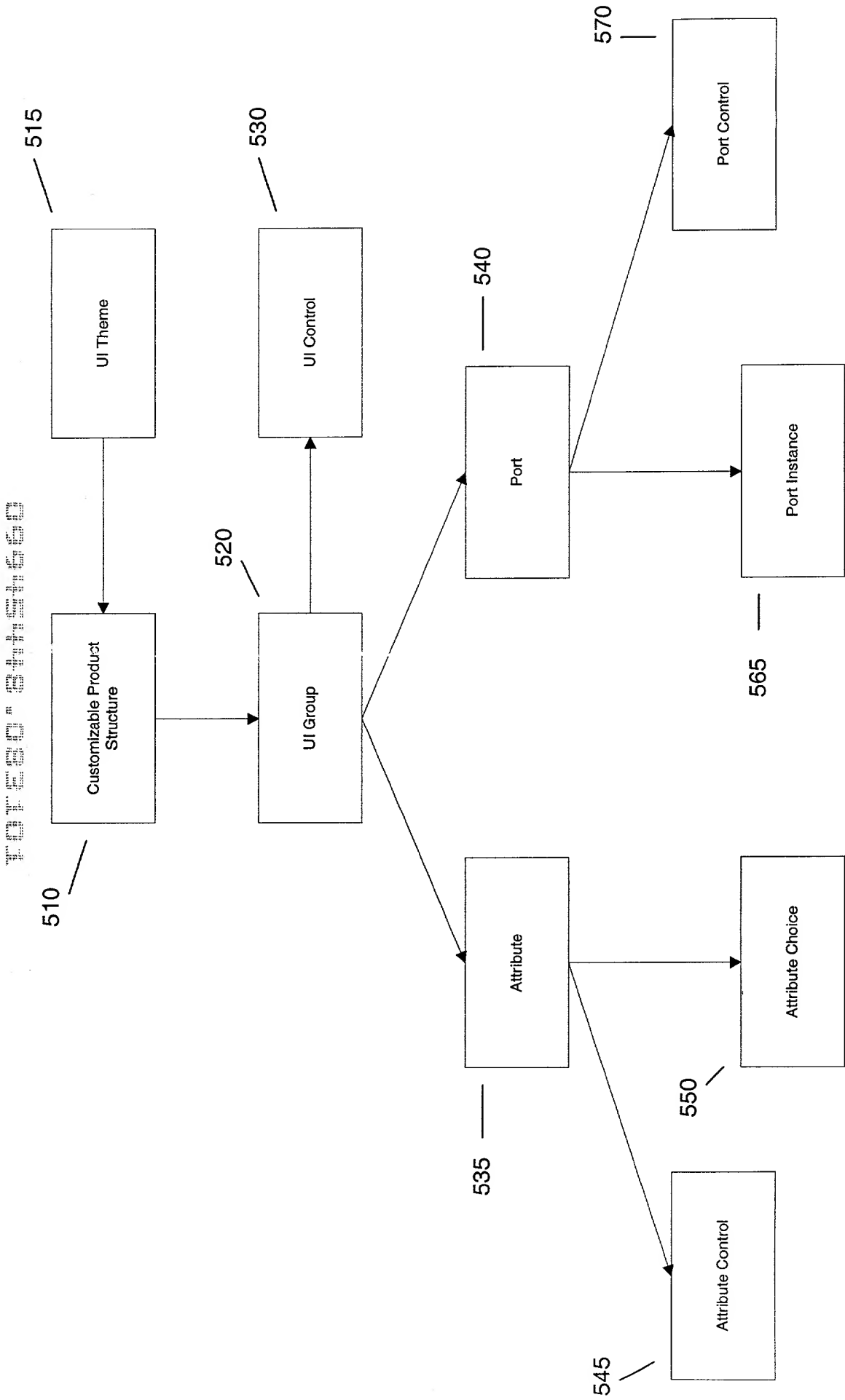


Figure 5

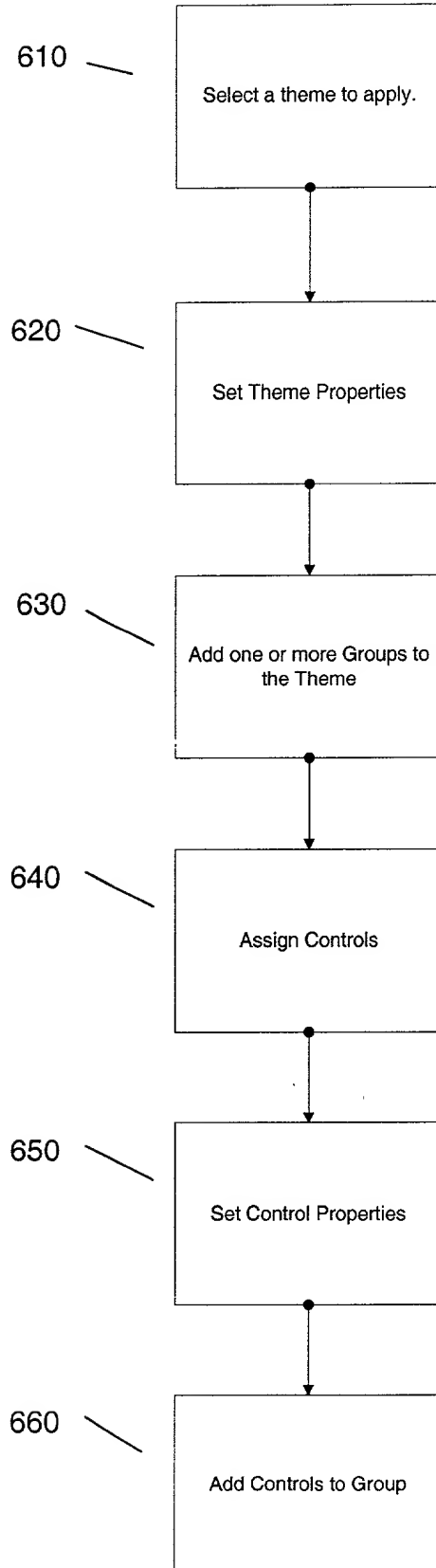


Figure 6

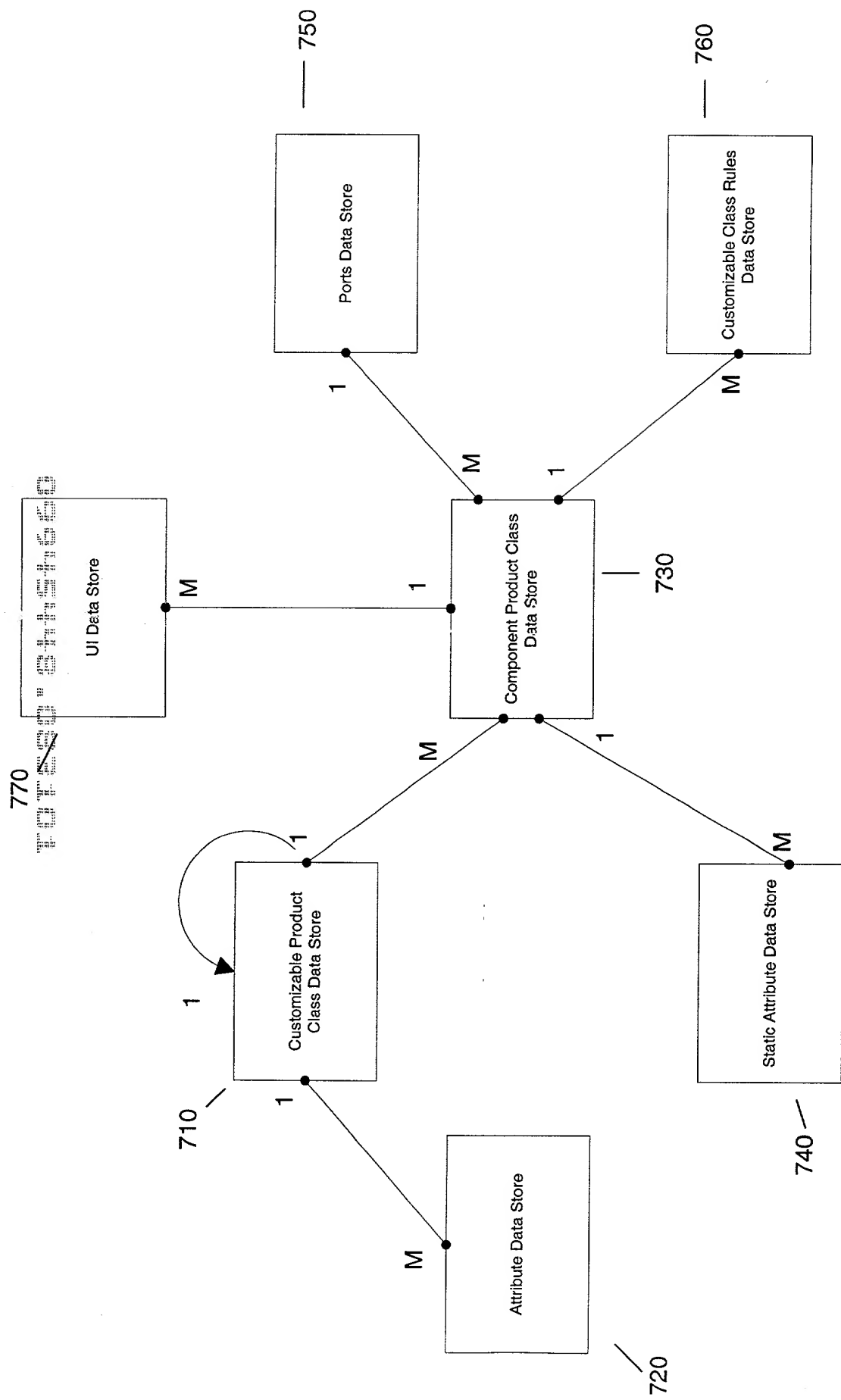


Figure 7

FIG. 8 is a block diagram of a system 800. The system 800 includes a customizable product addition logic 810, a customizable product assignment logic 820, a component product addition logic 830, a customizable rule addition logic 840, and a customizable UI mapping logic 850.

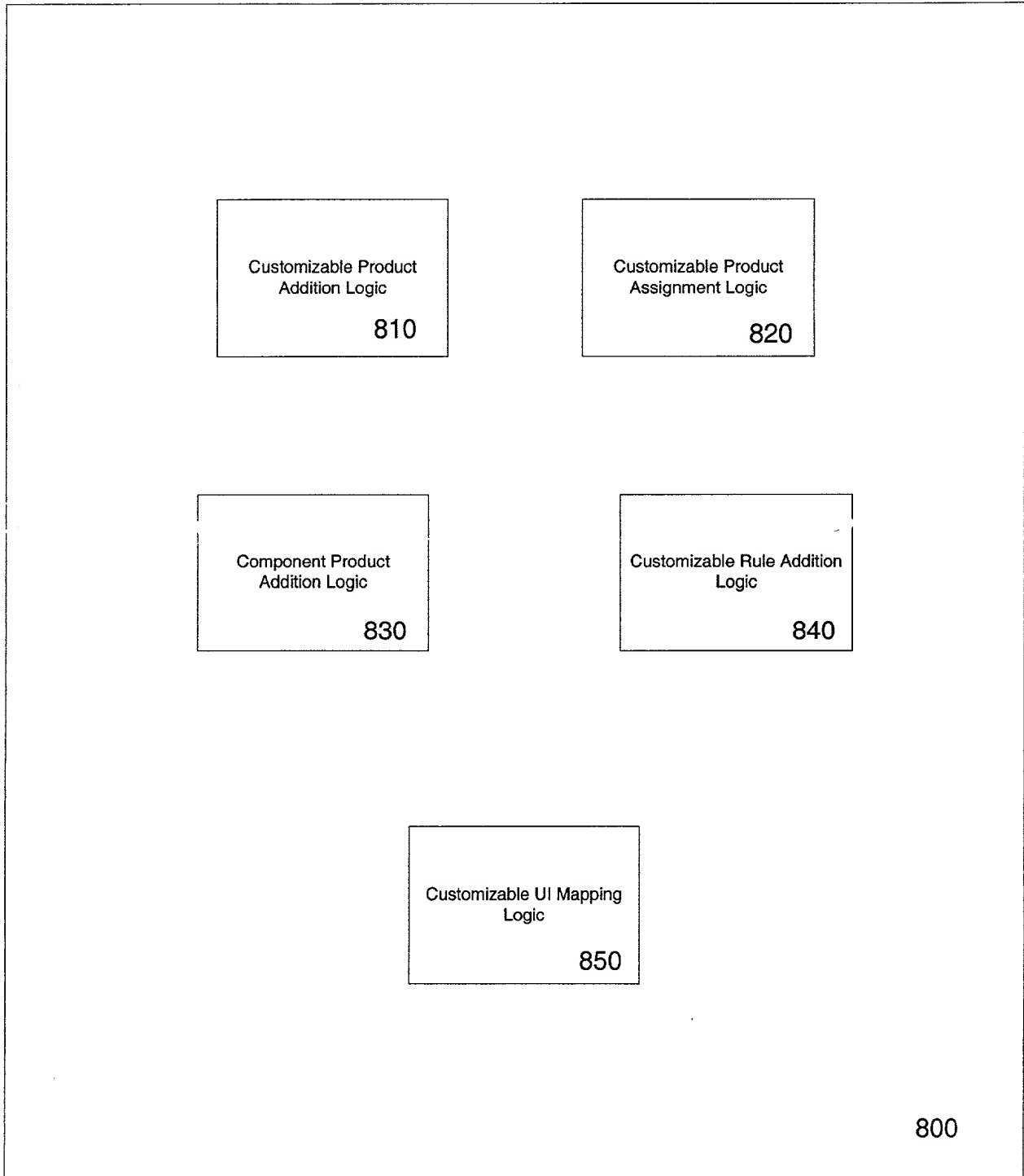


Figure 8